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Digital Cable Set-Top Box

NDSVideoGuard embedded

hathw@y
DIGITAL CABLE TV SERVICES

ND-1200C

UserManual

HUMAX
EASY DIGITAL

Notice

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Thank you for procuring a HUMAX Digital Cable Set-Top Box.
Please read this User Manual carefully to be able to safely install, use and maintain the Set-Top Box at maximum performance. We suggest that you keep this user manual next to your Set-Top Box for future reference.

Warranty Exclusions

Warranty is not applicable in cases other than those involving defects in materials or workmanship and in particular, does not cover:

- Defects caused by unauthorized repair, maintenance, modification or improper use, use of non-HUMAX / non-Hathway parts and components not supplied by HUMAX / Hathway.

- Defects caused by lightning, water, fire, acts of war, public disturbance or any other cause beyond Hathway's control.

- Products where the label bearing the serial number has been tampered, defiled, removed or is illegible.

- Defects or dameges caused due to improper handling or physical abuse.

- Defects caused by use of illegal software.

NB: The information in this document is subject to change without notice.

SPECIAL NOTICE

DO NOT SWITCH OFF THE SET-TOP BOX (STANDBY MODE)

- IT IS ADVISABLE THAT THE SET-TOP BOX SHOULD ALWAYS BE KEPT IN THE STANDBY MODE WHILE NOT WATCHING TV AND SHOULD NOT BE POWERED OFF FROM THE 230 V MAINS SWITCH OUTLET EVEN OVERNIGHT.

- IF THE SET-TOP BOX IS SWITCHED OFF FROM THE MAINS, IT WILL NOT RECEIVE IMPORTANT UPDATES AND INFORMATION TRANSMITTED FROM THE HEADEND OVER THE CABLE.

- ALSO THE SET-TOP BOX WILL TAKE SOME TIME TO SWITCH ON IF THE MAINS POWER WAS SWITCHED OFF.

SMART CARD

- THE SMART CARD SHOULD BE INSERTED GENTLY INTO THE SMART CARD SLOT TILL IT STOPS. ABOUT 1 CM OF THE CARD WILL REMAIN OUTSIDE.

VIEWING ANALOG FREE-TO-AIR CHANNELS

- THIS SET-TOP-BOX PROCESSES ONLY DIGITAL SIGNALS AND THE ANALOG FREE-TO-AIR SIGNALS ARE SIMPLY LOOPED-THROUGH THE SET-TOP BOX. HENCE THE SET-TOP BOX HAS TO BE IN STANDBY MODE TO VIEW THE ANALOG FTA CHANNELS. IF THE MAINS POWER TO THE SET-TOP BOX IS SWITCHED OFF, YOU CANNOT VIEW THE ANALOG FTA CHANNELS.

Notice

Read this manual carefully and make sure you understand the instructions provided.
For your safety, check what the result of each action will be.

Warnings, Cautions, and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

• Warning

Indicates a hazardous situation which, if not avoided, could result in (serious) injury.

• Caution

Indicates a situation which, if not avoided, could damage the equipment or other apparatus.

• Note

Indicates additional information to the user to make the user aware of possible problems and information of any importance to help the user to understand, to use and maintain the installation.

To reduce the risk of electrical shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates dangerous voltage inside the product that presents a risk of electrical shock or personal injury.

This symbol indicates important instructions accompanying the product.

This product should not be disposed with other household wastes at the end of its working life. Please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. This will prevent possible harm to the environment or human health from uncontrolled waste disposal.
Domestic users: Please contact either the retailer where you purchased this product or their local government office for details of where and how they can take this item for environmentally safe recycling. Business users: Contact your supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Safety and Warning

This digital cable Set-Top Box has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. MAINS SUPPLY
90 - 250V AC 50Hz
Operate your product only from the type of power source indicated on the marking label.
Disconnect the Set-Top Box from the mains before you start any maintenance or installation procedures.

2. OVERLOADING
Do not overload a wall outlet, extension cord or adapter as this may result in fire or shock.

3. LIQUIDS
The Set-Top Box should not be exposed to any liquids dripping or splashing onto it.
In addition, no objects filled with water, such as vases, should be placed on the Set-Top Box.

4. CLEANING
Disconnect the Set-Top Box from the wall outlet before cleaning.
Use a light damp cloth (no solvents) to dust the Set-Top Box.

5. VENTILATION
The slots on the Set-Top Box must be left uncovered to allow proper airflow to the unit.
Do not stand the Set-Top Box on soft furnishings or carpets.
Do not stack any electronic equipment on top of the Set-Top Box.

6. ATTACHMENTS
Do not use any unsupported attachments, as these may be hazardous or cause damage to the Set-Top Box.

7. CONNECTION TO THE CABLE TV SIGNAL AND TV
Connect all components before plugging any power cords into the wall outlet.
Always turn off the Set-Top Box, TV and other components before you connect or disconnect any cables.

8. LOCATION
Place the Set-Top Box indoors to avoid exposing it to lightning, rain or sun.
Do not place it near a radiator or heater.
Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR. Do not block these openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface.
If you place the product on a rack or bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.
Do not place the product on an unstable cart, stand, tripod, bracket or table from where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance

9. LIGHTNING, STORM, or NOT IN USE

Unplug the product from the wall outlet and disconnect the Cable input during a thunderstorm or when left unattended and unused for long periods of time.
This will prevent damage to the unit due to lightning and power-surges.

10. EXTRANEOUS OBJECTS

Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.
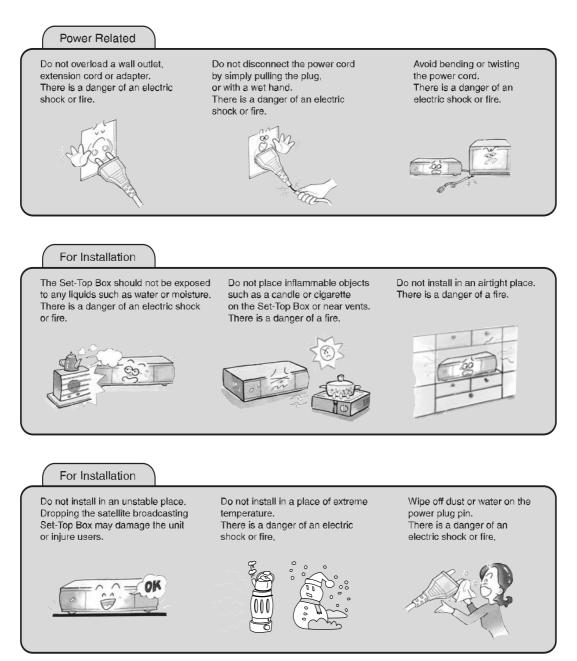
11. REPLACEMENT of PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer, or those that have the same characteristics as the original part. Unauthorized substitution may result in additional damage to the unit.
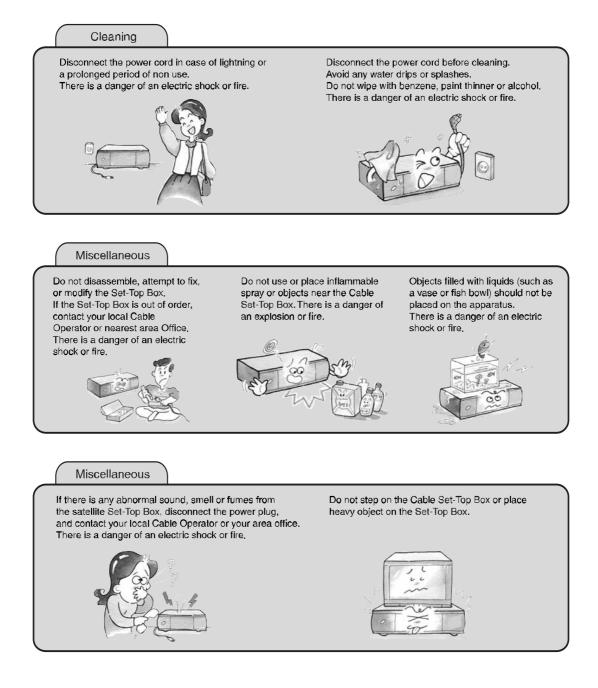
Warning

1. The mains plug, as a disconnection device, shall remain readily accessible by the user.

2. Follow these directions in order not to damage the power cord or plug.
   Do not modify or process the power cord or plug arbitrarily.
   Do not bend or twist the power cord too much.
   Make sure to disconnect the power cord with the plug held.
   Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.

3. Follow these directions. Failure to follow one of them may cause electrical shock.
   Do not open the main body.
   Do not insert metals or inflammable objects inside the product.
   Do not touch the power plug with wet hands.
   Disconnect the power cord in case of lightning.

4. Do not use the product when it is out of order. If you continue to use the product when defective, a serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.

5. Please do not insert metal or extraneous objects into the slots for smart cards.
   This can cause damage to the Set-Top Box and reduce its life span.

Security Instructions

For your security and to prevent damage, please read the following safety instructions carefully.

Power Related

Do not overload a wall outlet, extension cord or adapter. There is a danger of an electric shock or fire.

Do not disconnect the power cord by simply pulling the plug, or with a wet hand. There is a danger of an electric shock or fire.

Avoid bending or twisting the power cord. There is a danger of an electric shock or fire.

For Installation

The Set-Top Box should not be exposed to any liquids such as water or moisture. There is a danger of an electric shock or fire.

Do not place inflammable objects such as a candle or cigarette on the Set-Top Box or near vents. There is a danger of a fire.

Do not install in an airtight place. There is a danger of a fire.

For Installation

Do not install in an unstable place. Dropping the satellite broadcasting Set-Top Box may damage the unit or injure users.

Do not install in a place of extreme temperature. There is a danger of an electric shock or fire.

Wipe off dust or water on the power plug pin. There is a danger of an electric shock or fire.

Cleaning

Disconnect the power cord in case of lightning or
a prolonged period of non use.
There is a danger of an electric shock or fire.

Disconnect the power cord before cleaning.
Avoid any water drips or splashes.
Do not wipe with benzene, paint thinner or alcohol.
There is a danger of an electric shock or fire.

Miscellaneous

Do not disassemble, attempt to fix,
or modify the Set-Top Box.
If the Set-Top Box is out of order,
contact your local Cable
Operator or nearest area Office.
There is a danger of an electric
shock or fire.

Do not use or place inflammable
spray or objects near the Cable
Set-Top Box. There is a danger of
an explosion or fire.

Objects filled with liquids (such as
a vase or fish bowl) should not be
placed on the apparatus.
There is a danger of an electric
shock or fire.

Miscellaneous

If there is any abnormal sound, smell or fumes from
the satellite Set-Top Box, disconnect the power plug,
and contact your local Cable Operator or your area office.
There is a danger of an electric shock or fire.

Do not step on the Cable Set-Top Box or place
heavy object on the Set-Top Box.

Contents
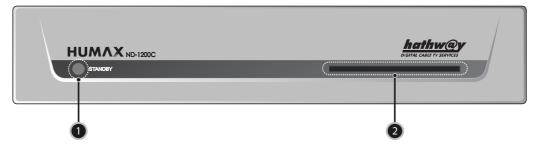
1. Before using the Set-Top Box

This chapter describes detailed instructins on the product and its accessories.

1.1 Package Contents

Please check all package contents before using your Set-Top Box.

Set-Top Box

Remote Control Unit

User Manual

RCA Cable

Smart Card

2 AAA size batteries

1.2 Front Panel

1. **STANDBY LED**

   Red light is emitted when the product is in STANDBY mode.
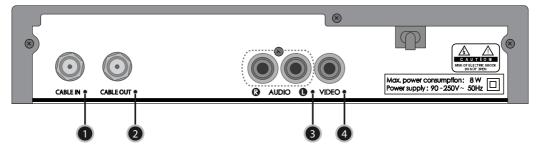   While watching the analog Fee-To-Air Channels, the Set-Top Box should be in the STANDBY mode.

2. **SMART CARD SLOT**

   Slot for a smart card.
   The Smart Card is to be placed in the slot with the red arrow "Insert card this way up" facing upwards (i.e. Chip-side downwards).

   NOTE: THE CARD IS TO BE INSERTED GENTLY TILL IT STOPS AND REMAINS APPROX. 1 CM OUTSIDE.

1.3 Rear Panel

1. **CABLE IN**

   Connect the incoming Cable-TV signal to the CABLE IN jack on the Set-Top Box.

2. **CABLE OUT**

   Connect the outgoing cable from CABLE OUT to the TV set.
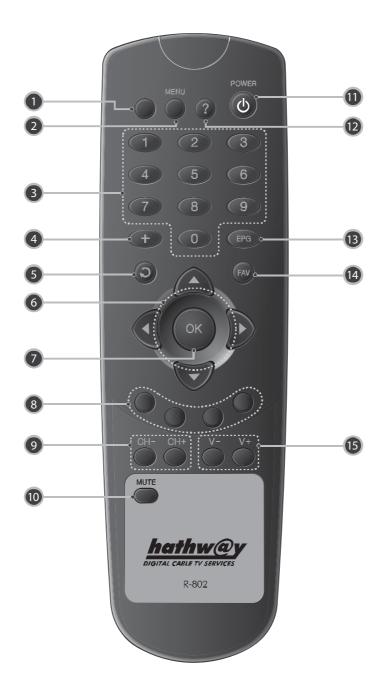
3. **AUDIO R/L**

   Connect the AUDIO R to the TV AUDIO IN and AUDIO L to the TV AUDIO IN using RCA-RCA cord.

4. **VIDEO**

   Connect the VIDEO to your VIDEO IN of TV / VCR using RCA-RCA cord.

1. Before using the Set-Top Box

1.4 Remote Control

1. **TV**

   Switches between TV and Radio modes.

2. **MENU**

   Displays the Main Menu.

3. **NUMERIC(0-9) buttons**

   Enters a TV/Radio channel number.

4. **INFO (+)**

   Press this button to view additional
   information about a TV programme,
   while in EPG mode.
   Pressing the button while viewing a
   Programme allows one to select
   alternate audio language and subtitling,
   If available.

5. **BACK (⟲)**

   Exits whichever screen you are on
   and goes one screen back.

6. **Arrow buttons**

   Changes the channel or moves the cursor
   up, down, left, or right.

7. **OK**

   Selects a menu or confirms the selected
   operation. If pressed while watching a
   TV Programme, displays the main menu.

8. **Red/Green/Yellow/Blue**

   Select the corresponding color option
   shown on-screen (for use with help
   services).

9. **CH-/CH+**

   Changes the channel.

10. **MUTE**

    Mutes the audio. Press again to resume
    audio.

11. **POWER**

    Switches between operation and standby
    modes.

12. **HELP (?)**

    Press to display the Help box on the
    screen. If pressed while watching a
    programme, displays the programme
    banner.

13. **EPG**

    Displays the Programme Guide.

14. **FAV (Favourite)**

    Press to display the Favourite channels
    (CH 900 ~ 919).

15. **V-/V+**

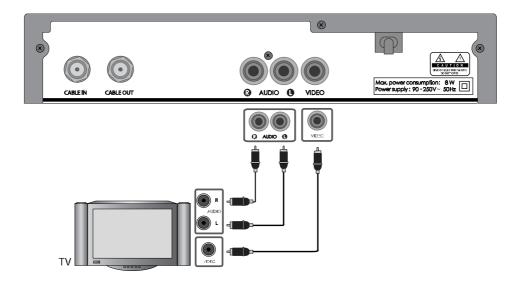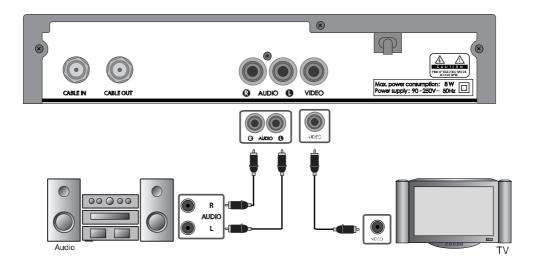   Adjusts the audio volume.

2. Setup

This chapter describes how to set up the Set-Top Box. Select the most appropriate procedure depending on your requirements.

Note: If you encounter any problem when setting up the Set-Top Box, please contact your local Cable Operator or Area office.

2.1 Connecting the Set-Top Box

Connecting TV / Hi-Fi system

INPUT

• Connect your CATV line to the CABLE IN socket on the Set-Top Box for receiving cable services.

OUTPUT

• RF Output

Connect a cable from the CABLE OUT connector of the Cable Set-Top Box to the RF (Tuner) input of the Television using a F to TV cord.
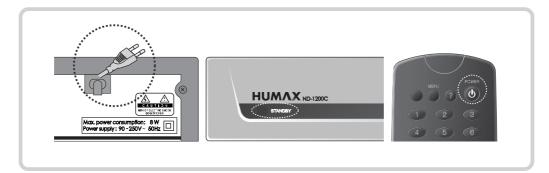
• Base-band Output

For best picture quality, it is recommended to use the A/V outputs of the Cable Set-Top Box.

• RCA A/V Cable are connected as in the figure above. Please note the polarity for Left & Right audio channel is correctly connected.

2.2 Powering On

1. Connect the power cord of the Set-Top Box to a wall outlet.

2. Power on by pressing **POWER** (⏻)button on the Remote Control.

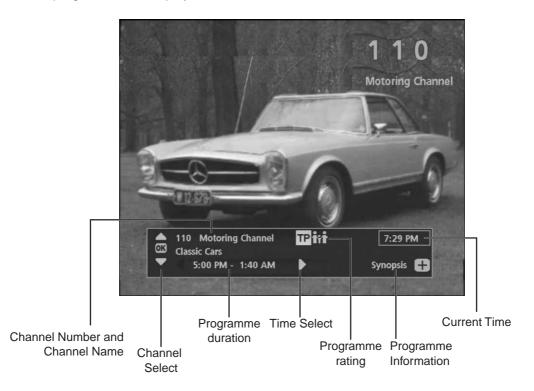## 2.3 Configuration of the Set-Top Box

Since the process of configuring the Set-Top Box involves certain Network parameters, you are requested to get the same carried out by your Cable Operator / nearest Area Office personnel.

3. Watching a Cable Channel

3.1 Turning the TV on for the first time after configuring Set-Top Box

The following figure illustrates the screen that appears when you turned on the TV for the first time. When you switch on and change the channel for the first time, the Programme banner caption appears briefly and disappears as shown below. (You can configure the duration of the banner vide option 'Banner Duration' under 'Personal Settings')

 • Right top of the screen: 3 digit Channel number and Channel name are displayed.

 • Bottom of the screen: Channel number, Channel name, Programme duration and various current programme are displayed.

3.2 To Select a Channel

Subscribers can select and watch their desired channel by performing any one of the following procedures.

1. Press the **CH-/CH+** (CH- / CH+)button to select your desired channel.

2. If you know the 3 digit channel number of the desired channel, input channel number directly by using the **NUMERIC(0-9)** buttons to view the channel.

3. Press the **EPG** (EPG)button on Remote Control to enter Programme Guide screen, use the ▲/▼/◄/► button and **OK** (OK)button to select your desired channel.

4. You can go to Main Menu and select the Programme (⊕)icon and select "Programme Filter" and select by genre. For more information refer to Using the EPG section.

5. You can go to Main Menu and select the Channel (⊠)icon and using the ▲/▼/◄/► button, select the desired channel.

6. While viewing the "Program Banner", you can scroll through the names of the available channels and select the desired channel.

7. By using the **FAV** (FAV)button on the Remote Control and using **CH-/CH+** (CH- / CH+) button thereafter.

3.3 To Adjust the Volume

You can adjust the volume using the **V-/V+** (V- / V+)button on the Remote Control. The volume level is displayed as a vertical bar on the left hand side of the TV Screen.

NOTE: YOU MAY ADJUST THE STB VOLUME SO THAT WHILE CHANGING BETWEEN DIGITAL CHANNELS AND THE ANALOG FTA CHANNELS, THE CHANGE IN VOLUME ON THE TV IS MINIMUM.

3.4 To Mute Sound

The Mute function is convenient to use when telephone or the doorbell rings.
Press the **MUTE** (MUTE)button to mute sound. Press the button once again to disable the mute function.

4. Using the EPG (Electronic Programme Guide)

4.1 EPG (Electronic Programme Guide) Screen Overview

This section describes the various components and screens of the EPG.

1. Programme Guide screen

Pressing the **EPG** (EPG)button displays the following Programme Guide grid.
In this screen, you can view the Programme details of each channel. You can select the desired Programme or event by selecting the programme and pressing the **OK** (OK)button on the Remote Control.

2. Main Menu screen

Pressing the **MENU** (^{MENU}◯)button while watching TV displays the following Main Menu screen.
(The TV programme is displayed in the window in 1/4 size.)

This is the Main page which lets you access all the features of the Set-Top Box through
the 7 icons at the top. Each icon has a sub-menu.

4. Using the EPG (Electronic Programme Guide)

This is the Main page which lets you access all the features of the Set-Top Box through the 7 icons at the top. Each icon has a sub-menu.

The function of each icon on the EPG menu are as follows.

1. ⊠ Channels
2. ⊡ Programmes
3. ⚇ Help
4. ✉ B-Mail
5. ⬚ Personal Settings
6. ⚏ System Settings
7. ⚉ Games

Note: If a menu is selected, the icon changes to a golden color.

1. Press the ◀/▶ button to select an icon on the top of the screen.
2. The submenu of each selected icon is displayed on the left of the screen.
   Press the ▲/▼ button to select this submenu. See detailed map on next page.
3. Press the **OK** ((OK))button after selecting the menu that you want.
4. If you want to cancel the selected menu and select another, press the **BACK** ((↺))button.
5. Press the **HELP** ((?))button to view brief help information about each function.
6. Press the **INFO** ((+))button to see the Programme information of the current programme on the small TV screen.

3. Menu Map

Channels

Programmes
- Programme Guide
- Favourite Channels
- Programme Filter
- Reserved Programmes
- Radio Channels

Help
- Parental Lock Help
- Guide to Movie Ratings
- Audio and Subtitle Help
- Favourite Channel Help
- Contact Information Help

B-Mail

Personal Settings
- Parental Lock
- Select Audio 1
- Select Audio 2
- Select Subtitle Language
- Account Status
- Pay-Per-View Account
- Pay-Per-View Password
- Select Key Code
- Set Pay-Per-View Limit
- Banner Duration
- Retune Reserved Program

System Settings
- Select your Signal
- Diagonistics
- Urgent Message Alert
- Set Up A New Card
- Advanced Setup

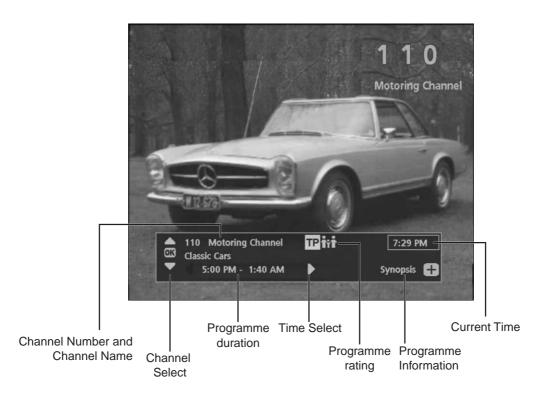**Games**
- 180 ITV games
- 181 ITV games

4. Using the EPG (Electronic Programme Guide)

4. Programme Banner

Whenever the TV is switched on or the channel changed, a banner automatically indicating the current Programme title, time etc.
To view additional Programme information in this status, press the **INFO** (⊕)button.
You can search for Programmes on other channels or at different times in the grid using the ▲/▼/◄/► buttons.
Program Banner disappears automatically in a few seconds. To display Program Banner again while watching TV, press the **HELP** (?)button.

Channel Number and Channel Name
Channel Select
Programme duration
Time Select
Programme rating
Programme Information
Current Time

Note:

• The Programme Banner information appears for a while every time the channel is changed. You can configure the display time of the banner in 'Banner Duration' by accessing the "Personal Settings" icon.

5. Functions Guide

OVERVIEW OF FREQUENTLY USED FUNCTIONS

In this section, you can learn about how to use several frequently-used functions of EPG.

• **Programme Guide**

• **Favourite Channel**

• **Programme Category Search**

• **Parental Control**

5.1 Using the Programme Guide

1. Accessing the Programme Guide

You can select the Programme Guide in two ways.

• Either press the **EPG** (⊙EPG)button on the Remote Control.

• Alternatively, press the **MENU** (◯)button to enter the Main Menu screen.
Press the ◀/▶ button and select the Programme (▣)icon on the top of the Main Menu screen.
Using the▲/▼ button move to Programme Guide from the options displayed.
Press the **OK** (⊙OK)button, then the Programme Guide will be displayed.

2. Searching for programme of interest

In the programme guide, you can search Programmes by channel and time with the ▲/▼/◀/▶ buttons of the Remote Control, and search Programme information for days other than current day.

When a Programme is selected, press the **INFO** (⊕)button to view additional information about the selected Programme.

5. Functions Guide

3. Viewing the programme of interest

Select ▲/▼/◀/▶ buttons on the Remote Control, and press the **OK** (ⓄK)button.
If your desired Programme is a Programme to be broadcast later, the Programme
reservation screen appears.

4. Reserve / Cancel Programme

• To reserve a Programme, select your desired Programme using the ▲/▼/◀/▶ buttons,
  and the **OK** (ⓄK)button.

• The Programme reservation screen as well as Programme information will be displayed.

Press the **OK** (ⓄK)button to reserve a Programme. (If your desired Programme is on air,
you watch the Programme by pressing the **OK** (ⓄK)button.)

The √ shows that the program has been reserved.

• To cancel a reservation, go to the Programme (⊡) in the Main Menu, move to
"Reserved Programmes" and press the **OK** (⊙K)button.
Then the "Reserved Programmes" list will be displayed.
Select the Programme to cancel its reservation from the list, and press the **OK** (⊙K)
button to cancel the reservation.
The √ mark disappears showing that the reservation has been cancelled.

5. Quick Search

Press the Fast. Fwd / Rewind button in the Programme Guide screen to display the
banner with Day and Time options. This option allows the user to skip to the Programme list
of some other day or time without having to scroll sequentially e.g to jump from Monday to
Thursday without having to scroll through Tuesday's & Wednesday's programmes.
You can move to your desired scheduled day using the ▲/▼ button and desired time using
the ◀/▶ button.

5. Functions Guide

5.2 Using Favourite Channel

The Favourite channel function enables subscribers to select and watch Favourite channels easily by using a single button on the Remote Control, once programmed.

Favourite channel configuration procedures are described below.

1. Select the Programmes (▣)icon from the icons on top of the Main Menu screen by using the ◄/► button from the Main Menu. Then select 'Favourite channels' from the detailed items displayed on the screen by using the ▲/▼ button.

2. Select an number *none* from 900 *none* to 919 *none* in the MY FAVOURITES list in the Favourite Channel configuration screen by using the ▲/▼ button. Move to the CHOICES list by using the ◄/► button.

3. Select your desired channel beside the *none* item using **CH-/CH+** (CH-◯/ CH+◯)button within CHOICES and press the **OK** (◯OK)button.
   Then the channel is specified as a Favourite channel and is moved to the Favourite channel list.

SELECT FAVOURITE CHANNELS

MY FAVOURITES		CHOICES
900	Natural World	NDS News
901	Cartoon One	BBC Comedy
902	BBC Comedy	Motoring Channel
903	Motoring Channel	Natural World
904	$Premium Sports	$Premium Sports
905	* none *	$Sky Box Office
906	* none *	Cartoon One
907	* none *	Cartoon Two
908	* none *	Special Events

to go back

4. When you have configured a Favourite Channel, you can watch the channel by pressing the **FAV** ((FAV))button on the Remote Control or by entering the number channel nember 900 - 919 on the Remote Control.

5. The favourite channels will also appear in the EPG grid, once programmed.

6. While in the favourite channel mode, pressing **CH-/CH+** (CH-◯/CH+◯)button will allow the user to scroll within the programmed favourite channels.

Note: To delete a channel from the Favourite channel list, move the (Empty) item that is at the side of the channel to delete from the channel list using the ▲/▼/◀/▶ button. Press the **OK** ((OK))button. Then the Favourite channel is deleted.

5. Functions Guide

5.3 Searching by Programme Types

This function enables subscribers to easily find the channel that displays the desired type of current Programme by the programme type e.g Movies, Education etc..

1. While turning on the TV, press the **MENU** (MENU ⬡)button to enter the Main Menu

2. Select the Programmes (⬚)icon from the icons on the top of the Main Menu.
   Select 'Programme Filter' from the options displayed on the screen.

3. Move to your desired item from the Programme types displayed using the ▲/▼/◀/▶
   buttons and press the **OK** (OK)button.
   Then all Programmes of that particular type that are scheduled for the day are
   displayed with the channel number and time.

SELECT PROGRAMME   7:34 PM

Movie   Today

OK 351	5:00 PM	Titanic
▼ 100	3:00 AM	People's Court
351	4:30 AM	The Full Monty
110	4:40 AM	Legal Motoring

➕ Synopsis   ↺ to go back

4. Select your desired Programme and press the **OK** (ⓞⓚ)button.

The Set-Top Box automatically tunes your TV to the selected programme.

Note: The following types of Programme categories are available.

1. Movies
2. News/Current Affairs
3. Serials/Game Shows
4. Sports
5. Children's/Youth
6. Music/Ballet/Dance
7. Arts/Culture
8. Social/Political/Economics
9. Education/Science
10. Leisure/Hobbies
11. Special Characteristics

5. Functions Guide

5.4 Using Parental Lock Function

This function enables subscribers to control viewing of content for the protection of children and teenagers based on the rating of the broadcaster content.

Note: This function does not limit individual programmes but limits channels such as Movies, based on the Programme rating in the original broadcast.

To run the parental lock function, complete the following procedures.

1. While turning on the TV, press the **MENU** (^{MENU}◯)button to enter Main Menu.

2. Select 'Parental Lock' from the "Personal Settings" (📝)icons on the top of the Main Menu. The following screen will appear.

Press OK and the following screen will appear.

3. Input PIN code and then specify desired rating from the options displayed using the
▲/▼ button, and press **OK** (OK)button.
In the illustration above, all content of the rating U and UA will be locked.
The ⊘ symbol indicates that the rating has been selected.

Caution:
• Once the Parental Lock function is configured, all the Channels higher than the
specified grade will be blocked by an interruption screen while watching TV.
If you enter the PIN code at this time, then the interruption screen disappears,
and you can watch the Channel.
Programmes of ratings lower than the specified grade are not affected.

Note:
• Default PIN code is '**0000**'.
You can configure the PIN code by using the 'Select Key Code' function in the
'Personal Settings' menu.

5. Functions Guide

5.5 Other function of EPG

Until now, this manual described frequently used functions in the EPG.
Now this section describes other functions provided by the EPG.

Note:

This is the Main page which lets you access all the features of the Set-Top Box through the 7 icons at the top. Each icon has a sub-menu.

The function of each icon on the EPG menu are as follows.
1.   Channels
2.   Programmes
3.   Help
4.   B-Mail
5.   Personal Settings
6.   System Settings
7.   Games

Note: If a menu is selected, the icon changes to a golden color.

1. Press the ◀/▶ button to select an icon on the top of the screen.
2. The submenu of each selected icon is displayed on the left of the screen.
   Press the ▲/▼ button to select this submenu. See detailed map on next page.
3. Press the **OK** ((OK))button after selecting the menu that you want.
4. If you want to cancel the selected menu and select another, press the **BACK** ((↺))button.
5. Press the **HELP** ((?))button to view brief help information about each function.
6. Press the **INFO** ((+))button to see the Programme information of the current programme
   on the small TV screen.

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1. Channels 📡

Select the channels icon to display the complete channel list.
Select the desired channel by using the ▲/▼ buttons and press **OK** (⊙ⴽ)button.
Then the current Programme of the selected channel is displayed in the small screen.
Press the **INFO** (⊕)button to view the Programme information.
To view selected channel in full screen, press **OK** (⊙ⴽ)button once again.

Note: Programme information or Synopsis will be displayed only if it is provided by the broadcaster.

2. Programmes ◈

The Programme menu has 5 sub-menus as displayed on the screen below:

- **Programme Guide**
  In this screen you can view the Programme Guide grid for future.
  For more information on using this function, refer to the Overview of
  Frequently-Used Functions in the previous section.

- **Favourite Channels**
  This function allows you to configure desired Favourite channels.
  For more information on using this function, refer to the Overview of
  Frequently-Used Functions in the previous section.

- **Programme Filter**
  This function enables subscribers to easily find the channel that displays the desired type
  of current Programme by the programme type e.g Movies, Education etc.

  For more information on using this function, refer to the Overview of Frequently-Used
  Functions in the previous section.

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• Reserved Programmes
You can reserve a program that is to be broadcast in future using this function.
At that particular day and time, the TV set if ON, will automatically switch to the selected programme.

For more information on using this function, refer to the Overview of Frequently-Used Functions in the previous section.

• Radio Channels
If you select a Radio channel, the list of available Radio channels is displayed.
Select your desired channel from the list to listen to quality audio.

3. Help

This icon represents help services.

• Parental Lock Help
• Guide to Movie Ratings
• Audio and Subtitle Help
• Favourite Channel Help
• Contact Information Help

4. B-Mail ✉

This function receives various messages and official announcements sent by your service provider.

When you receive an urgent B-mail, the Envelope (✉)icon will appear on the screen that you are watching as shown below.

Press the **MENU** (⭘)button to go to Main Menu.
Using the ◀/▶ button, select the ✉ icon.
Press the **OK** (ⓞⓚ)button.
The message will be displayed on the screen.
Up-to 8 B-mail messages can be stored in the Set-Top Box and when the 9th message is received, it overwrites the first message.
If no messages have been received, when you access the B-mail icon, the screen will display "NO MESSAGES'.
The urgent B-mail icon is only displayed if the viewer is viewing full screen video (Provided 'Urgent Message Alert' option is enabled).

5. Functions Guide

5. Personal Settings 📝

This function enables the subscriber to configure various EPG functions to one's personal requirement. This menu has following sub-menus:

• Parental Lock
This menu allows the subscriber to limit watching of broadcast material classified to protect children and teenagers.

For more information on using this function, refer to the Overview of Frequently-Used Functions in the previous section.

• Select Audio 1

• Select Audio 2

These 2 options allow the subscriber to select the audio language of their choice, if the source programme is available in more than 1 language.

• Select Subtitle Language
You can configure the subtitle language to be displayed on the screen if the source programme is supporting subtitling. Default configuration is English.

• Account Status
This function will be provided later.

• Pay-Per-View Account
This function will be provided later.

• Pay-Per-View Password

• Select Key Code
This function allows configuration of the PIN code used in the overall EPG.
The default code is '**0000**'.
To configure a new PIN code, you have to input the existing PIN code
Thereafter you will be prompted to enter the new 4 digit numerical pin code
Confirm the new pin code by entering it once again.
The new pin code will now be operational.

Note: In case you forget your pin code, kindly contact your Cable Operator or closest Area Office.

• **Set Pay-Per-View Limit**
  This function will be provided later.

• **Banner Duration**
  This option allows the user to set the duration of display for the 2 banners.
  The first screen titled "PROGRAMME BANNER DURATION" sets the display time for the
  programme banner from 1 - 60 seconds. Set the time to 0 second if the banner is not to
  be displayed. The second screen titled "RESERVED PROGRAMME ALERT TIME"
  allows the user to select as to how much in advance the alert for Reserved Programmes
  should be displayed. The range is from 1 - 30 minutes.

• **Retune Reserved Programme**
  This option allows automatic switching to reserved Programme when the
  Programme is broadcast.
  If the 'Yes' option is selected and the Set-Top Box is in operation, it will automatically
  tune to the reserved programme whenever the programme starts.
  If the 'No' option is selected, the Set-Top Box will not tune to the reserved programme
  and will continue to display current programme.

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6. System Settings

Caution: This function is for installation personnel only.
Please do not use this function, if you are not familiar with the procedures for configuration of Set-Top Box environment.

The selected screen consists of the following 5 menus.

Each menu provides the following function.

• **Select Your Signal**

To check the signal reception status, complete the following procedures.

1. Press the **OK** (OK)button in the System Settings menu.
2. The Channel select screen appears.
   Select the appropriate Channel, and press the **OK** (OK)button.
   Displays current signal status of the selected Channel by displaying signal strength, signal quality and BER (Bit Error Rate). If the Set-Top Box is not properly installed or there is a problem, the values displayed are very low.

• Diagonistics

Set-Top Box hardware/software information display.

To view information on the operational environment of the Set-Top Box, complete the following procedures.

1. Select 'Diagonistics' in 'System Settings' screen and then press the **OK** ((ok))button.
2. A new window appears displaying all information on current status including Set-Top Box hardware, and software release notes, version, tuning status, etc.

• Urgent Message Alert

This function allows the subscribers to determine whether to display urgent messages on the screen immediately or not. You can enable or disable this function as follows:

1. Press "Urgent Message Alert" in the "Systems Settings" menu.
   Press the **OK** ((ok))button.

2. A new window appears allowing you to select 'Enable' or 'Disable'.
   If 'Enable' is selected, the emergency message is displayed on the screen immediately on arrival.
   If 'Disable' is selected, the message icon is not displayed on the screen.

   Note: In such a case, the user would not know if a new message has arrived.
   To check for messages, the user has to access the B-mail icon.

• Set Up A New Card

This function enables copying the viewing information of the existing card to a new one when you are replacing Set-Top Box card with a new card.

1. Select 'Set Up A New Card ' option in the 'Systems Setting' menu and then press the **OK** ((ok))button.

2. A screen appears asking you to confirm new card installation once again.
   Select 'Yes' to proceed to the next step, or select 'No' to return to System Settings menu screen.

3. Follow the instructions on the screen.

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• **Advanced Set-up**

TV Aspect Ratio Setup

This function allows configuration of the picture ratio for the subscribers TV between 4:3 and 16:9.

1. Move to 'Advanced Setup' in the 'System Settings' screen and press the **OK** ((OK)) button.

2. Select 'TV Aspect Ratio Setup' in the 'Advanced Setup' screen and then press the **OK** ((OK))button.

3. Configure the TV picture ratio appropriate to the user's TV either 4:3 or 16:9 by using the ▲/▼ button and then press the **OK** ((OK))button.

Set-Top box RF Output

This function allows selection of the RF output channel of the Set-Top Box.
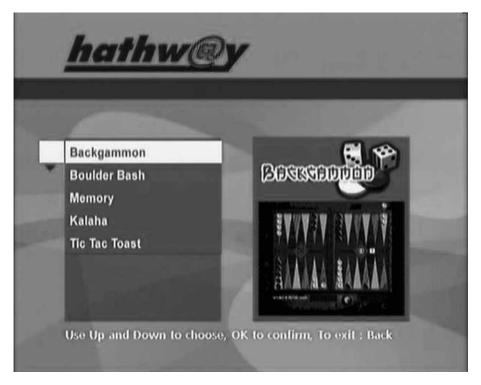The default setting is CH E36 (591.25 MHz)

1. Move to 'Advanced Setup' in the 'System Settings' screen and press the **OK** ((OK)) button.

2. Select 'Set-Top box Output' in the 'Advanced Setup' screen and then press the **OK** ((OK))button.

3. Select the desired UHF Channel from the list displayed and press **OK**((OK))button.

4. The Set-Top Box will now provide its RF output on the chosen UHF Channel.

7. Games

Provides various games for user's entertainment.
Select the game icon to display the game channels.
Select the channel you want using the ▲/▼ button and press the **OK** (OK)button
to start various games.

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Select a game you want using the ▲/▼ button and press the **OK** (⊙Ⓚ)button to start various games.

Precautions

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• Not to be copied, used or translated in part or whole without HUMAX's prior consent in writing except approval of ownership of copyright and copyright law.

• The information in this document is subject to change without notice for enhancement of the product function.

• This product is designed for home use (indoor installation).

Specifications

HARDWARE SPECIFICATIONS

Power Supply

Input Voltage	AC 90~250, 50Hz
Type	Switching Mode Power Supply(SMPS)
Power Consumption	Max. 8 W Stand-by: Max. 7 W

Demodulator

Symbol Rate	1.5 - 7 Ms/s
Constellation	16, 32, 64, 128, 256QAM

Tuner

1 Input Connector	F-Type Female
1 RF Output Connector (loop through out)	F-Type Female
Frequency Range	47 MHz to 862 MHz
Input Signal Level	47 to 75 dBuV

Video Decoder

Transport stream	MPEG-2 ISO/IEC 13818
Profile Level	MPEG-2 Main Profile @ Main Level
Input Rate	Max. 15 Mbit/s
Video Formats	4:3, 16:9 Letter box(Default)

Audio Decoder

Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Single / Dual mono / Stereo / Joint stereo

RF-Modulator

RF/Loop-through Output Connector	F -Type Female
Output level	72 dBuV
Frequency	470 MHz to 862 MHz
Output Channel	UHF, CH 21-CH 69
TV standard	PAL G
Preset Channel	Software changeable by Menu (Default is CH 36)

Conditional Access Interface

Smart Card Reader	1 Slot, ISO7816 Compatible

Memory

Flash Memory	8 Mbyte
Graphics (MPEG) & System Memory	16 Mbyte
EEPROM	32 Kbytes

Front panel

Slot	1 Smart Card
Indicators	1 LED (2 Colors) : Power On / Standby

Rear panel

Main Power Cable	Fixed type on the body
Cable In	1 Input, with loop-through
RCA	1 Video Output / 2 Audio Output (Left, Right)
Cable Out	1 within Tuner internally

Physical Specification

Size (W x H x D)	215 x 41 x 158 mm
Weight(Net)	0.85 kg
Operating Temperature	0 °C to +45°C
Storage Temperature	-10 °C to +70°C
Accessories	Remote Control, User Manual, 2 Batteries(AAA) RCA Cable
Remote Control Unit	32 keys - NUMERIC button(0-9) - EPG, MUTE, TV, BACK, OK - POWER, MENU, HELP, FAV - Up, down, left, right, CH+, CH-, V+, V- - Red/Opt+, Green/soundtrack, - Yellow/subtitle, Blue/Freeze,

SOFTWARE SPECIFICATIONS

Main Features

Condition Access System	NDS
Middleware	NDS core
Basic System	MPEG-II Digital & fully DVB Compliant.
EPG	NDS
Subtitle	Supports EBU and DVB subtitle
Audio Language	Auto language selection of program with user setting in menu
Parental Control	Yes
Software Upgradeable	Yes

On Screen Display

OSD Languages	English
Information Banner	Yes
Finger printing	Yes

NB: The above specifications are subject to change without prior notice.

Memo